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USING ENGR ANALYSIS FOR SQA RISK PLANNING

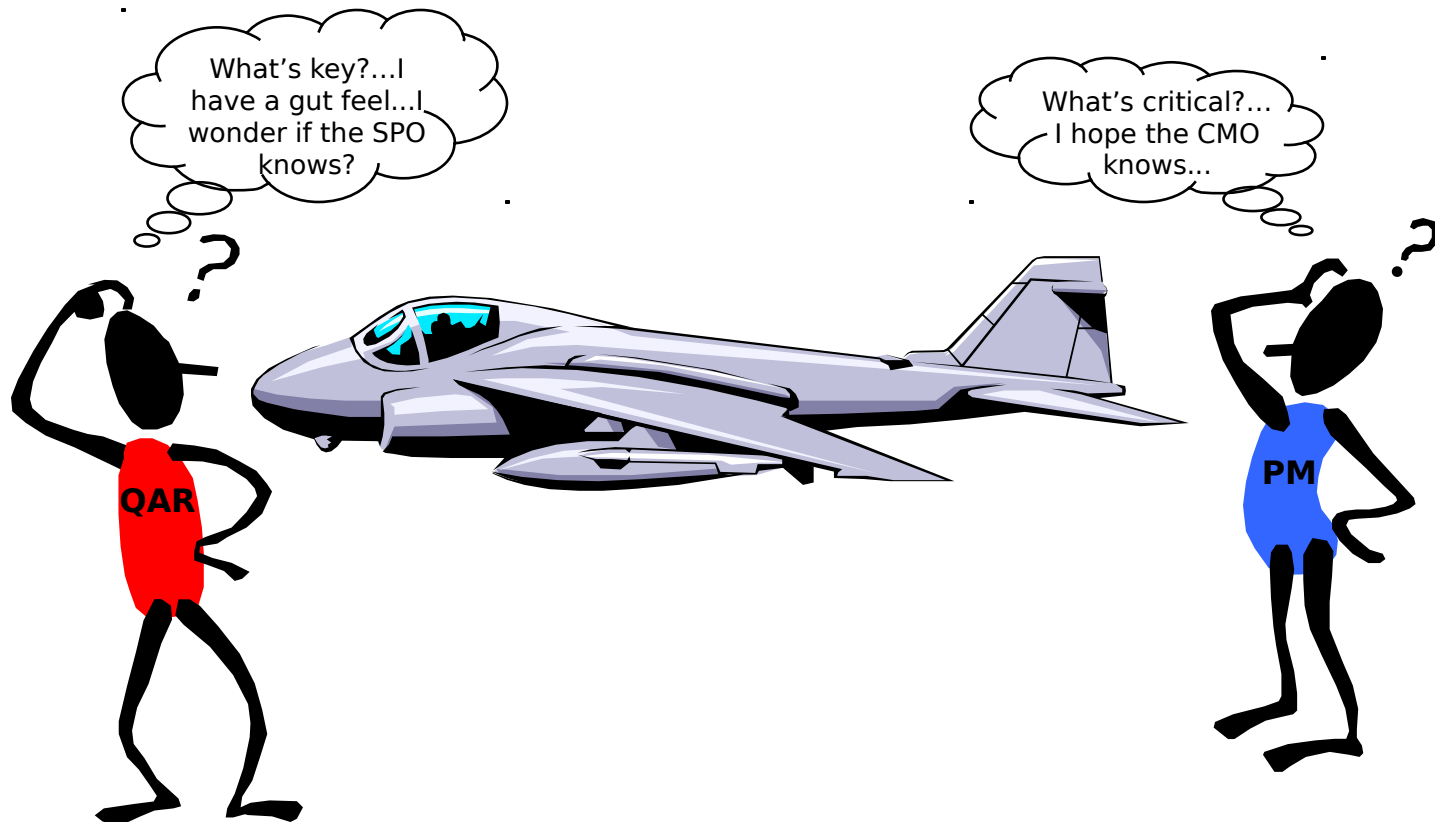
Presented By:

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Date : TBD

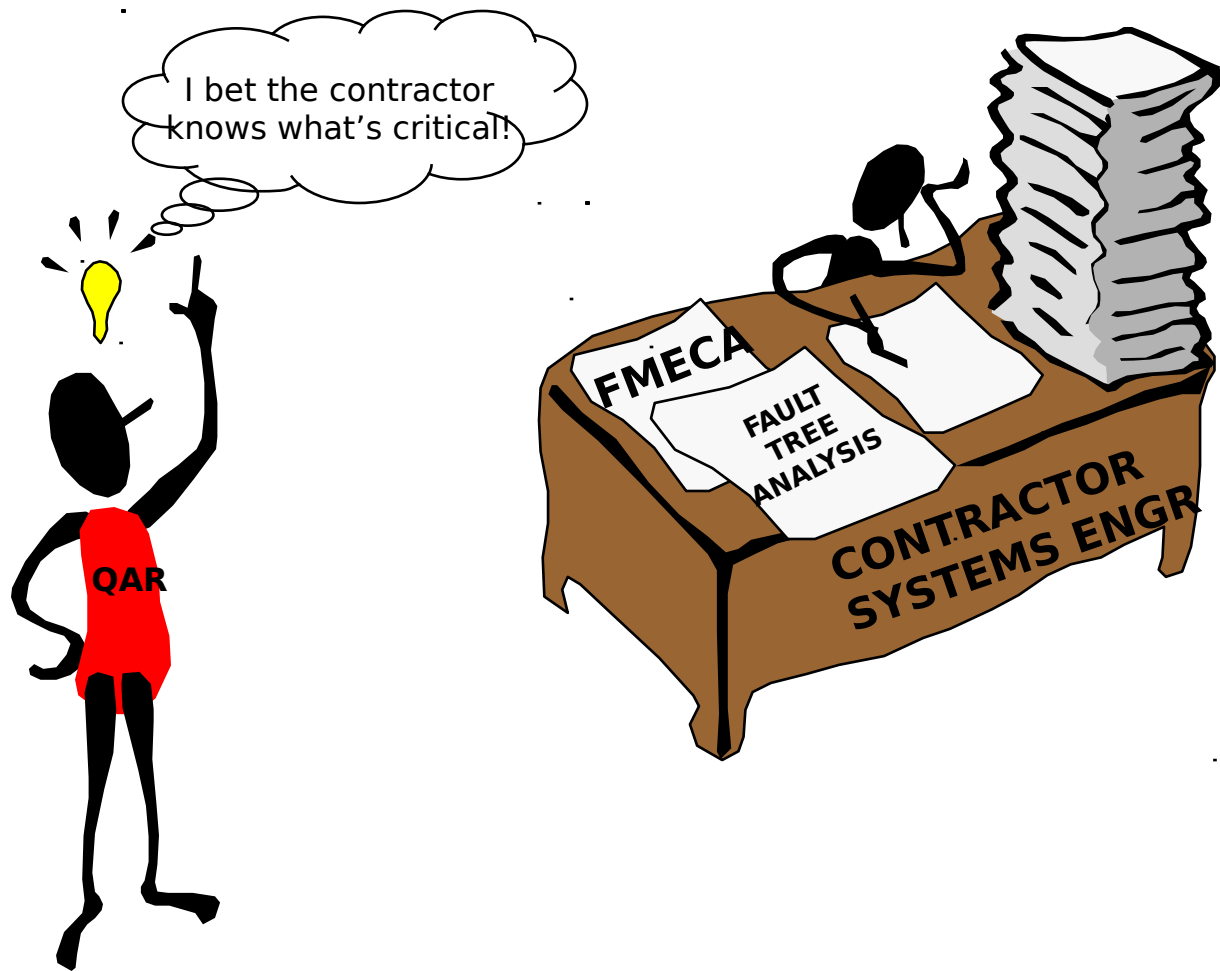
Risk Planning Requirements

- Risk planning requires identification of key processes and product characteristics



Tools for Risk Planning

- Contractor engineering analysis can be used to identify key product characteristics and associated key processes



What is a FMECA?

- **A Failure Modes, Effects, and Criticality Analysis (FMECA):** A design evaluation that documents failure modes for a component/subsystem and categorizes the severity of the failure mode

Severity Classification Criteria

Description	Category	Classification
Catastrophic	I	Death or system loss
Critical	II	Severe injury or major system damage
Marginal	III	Minor injury or minor system damage
Negligible	IV	Less than minor injury or minor system damage

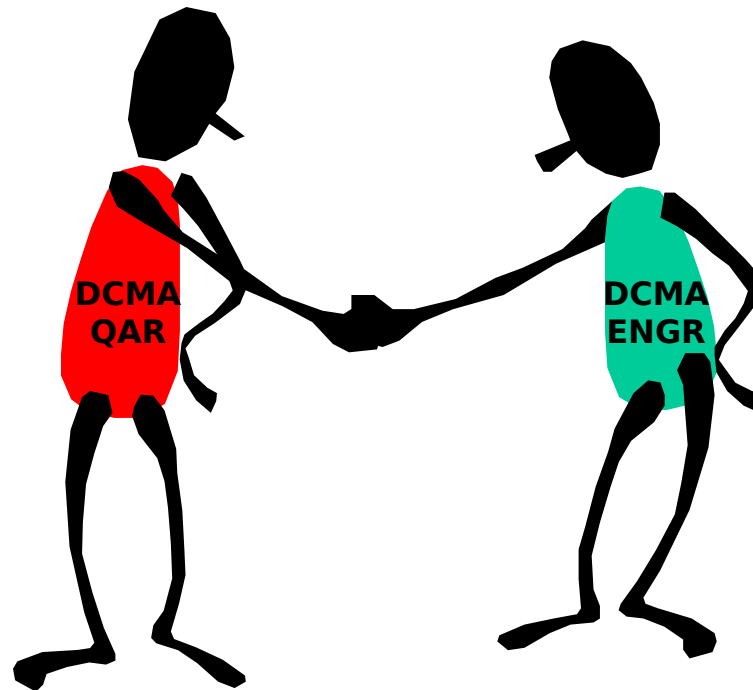
Where Do I Find A FMECA?

- FMECA and other engr analysis should be identified during contract review
 - Usually found in EMD contracts*
 - Often found in System Safety, Reliability, or Maintainability sections of the SOW*
- MIL-STD-1629 provided guidelines for FMECA development (cancelled in 1998)



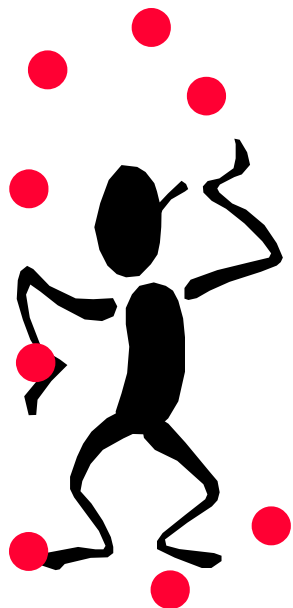
Where Can I Go For Help?

- CMO engineering personnel should assist in identifying engineering analysis for SQA risk planning
- Program Office engineering personnel should be able to help identify engineering analysis
- Contractor should be able to provide analysis

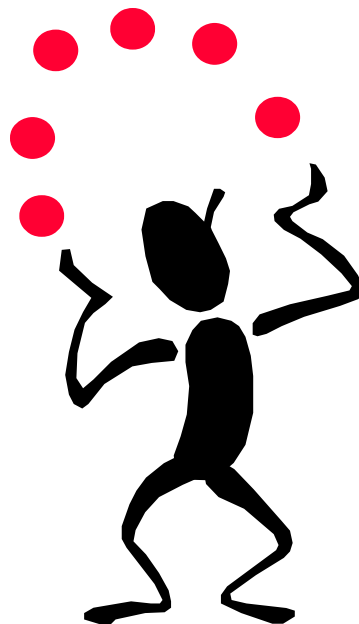
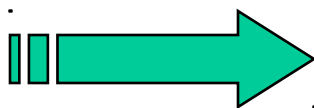


Benefits

- Allows CMO to focus their activities on the “important stuff” so they can be more effective



Before



After

- Key process and characteristic identification based on analysis not opinion
- Can withstand scrutiny of outside assessors

